

ing same depression, very severe storms occurred over New York and New England, which were most destructive in a belt of country including the Mohawk and upper Hudson valleys, Massachusetts and Connecticut. They appear to have commenced in the Mohawk valley, about 1 p. m., where "a violent hurricane," seemingly about fifteen miles wide, passed over Herkimer, Fuller, Montgomery, Schenectady, Albany (2 p. m.) and Rensselaer counties, devastating orchards and leveling grain crops: a "violent storm" commenced at Coxsackie, Greene county, at 2:30 p. m.; Kingston and Saugerties, Ulster county, 4 p. m., "tornado," crops ruined, barns demolished, ice fell in large chunks." In *Connecticut*, at Shelton, "heavy storm," two men killed and two injured by lightning; off Long Island, boat capsized and two men drowned. *Massachusetts*—Pittsfield, 2:30 p. m., "tornado from west, three persons killed and four injured, buildings unroofed and blown down, storm took a course from NW. to SE., following along the valley, track not over sixty rods wide, in which hundreds of trees were leveled and buildings demolished;" Laconboro', immense hail-stones, seven inches in circumference, great damage to crops, one person killed; West Stockbridge, one person killed; Springfield, 3:15 p. m., heavy storm; Northampton, 3 p. m., terrible storm, buildings and trees demolished, fearful wind, followed by heavy rain; Fitchburg, 3:35, "tornado, lasting three minutes," much damage to buildings and trees; Boston and vicinity, 4:17 p. m., severe wind and hail-storm, houses unroofed and one man killed; at Hull, captain of schooner washed overboard and drowned; off Baker's Island, sloop capsized and all on board drowned; off Salem, boy washed overboard and drowned; at Paddock's Island, man drowned; at Dover, town hall demolished and one man killed; at Brookline, church and town hall badly damaged; on Bird's Island flats, yacht capsized and six persons drowned; off Scituate, two boats capsized and three persons drowned; at Newton, trees uprooted and houses badly damaged; South Braintree, houses demolished and two persons injured; Lawrence, Essex county, storm began at 4 p. m., NW. gale for fifteen minutes. Taunton, Bristol co., 5:30 p. m., storm lasting five minutes, followed by two hours severe NW. gale. Nantasket, Norfolk co., "hurricane struck here at 5:30 p. m.," buildings demolished and six persons injured; near Governor's Island, two yachts capsized and five persons were drowned. In all thirty persons were drowned on that day in and around Massachusetts bay. Woods Holl, "tornado" or squall from 5 to 5:30 p. m. *Rhode Island*—Newport, between 5 and 6 p. m. "terrible storm of wind, rain and hail." Off Montauk Point, L. I., schooner Annie and Millard struck by lightning during heavy thunder-shower during Wednesday night. Schooner Agnes parted chains in Hamstead Harbor, L. I. Schooner Harriet Lewis, parted chains in Dutch Island Harbor, and several vessels lost sails and topmasts in Long Island Sound. On the 17th terrific thunder-storms, with heavy rains were reported in northeastern part of Texas, near Jefferson two horses were killed by lightning, and at Kildare a house was struck and one person killed; Chattanooga, Tenn., heavy storm, houses blown down; Portsmouth, Va., one person killed by lightning. On the 18th, off Point aux Trembles, 21 miles from Quebec, shortly before 9 p. m., yacht capsized and eight persons drowned. On the 23rd, accompanying low-area No. VI., at Smith Falls, Ontario, terrific thunder-storm, one person killed; Oakland, Ky., destructive wind-storm over northern section of county. On the 20th, accompanying low area No. VII., at Pittsburgh, Pa., a very violent storm of wind, with heavy rains, producing floods in the Youghiogheny, Monongahela and Alleghany valleys; at Philadelphia, Pa., heavy storm, houses unroofed. On the 28th, at Ft. Wallace, Kansas, a "violent NW. wind," and at McKinney, Tex., evening, "tornado" from the N., demolishing a church. 29th, Corsicana, Tex., "tornado" from west to east. 30th, Syracuse co., N. Y., "tornado" in southwestern part of county at 3 p. m., track three miles wide and ten miles long, lasting twenty minutes, deluge of water, crops much damaged.

VERIFICATIONS.

Indications.—The detailed comparison of the tri-daily weather indications for June with the telegraphic reports for the succeeding twenty-four hours, shows the general percentage of omissions to be 1.41 per cent, and of verifications to be 85.1 per cent. The percentages for the four elements have been, Weather, 97.3; Direction of the Wind, 87.0; Temperature, 82.4; Barometer, 87.3. The percentages of verifications by geographical districts have been: New England, 83.9; Middle States, 89.1; South Atlantic States, 82.3; East Gulf States, 80.8; West Gulf States, 82.5; Lower Lake region, 87.7; Upper Lake region, 86.3; Tennessee and the Ohio valley, 82.4; Upper Mississippi valley, 87.6; Lower Missouri valley, 85.0; Northern Pacific coast region, 91.7; Central Pacific coast region, 100; Southern Pacific coast region, 100. Of the 3,813 predictions that have been made, 149, or 3.91 per cent, are considered to have entirely failed; 116, or 3.04 per cent, were one-fourth verified; 423, or 11.09 per cent, were one-half verified; 457, or 11.99 per cent, were three-fourths verified; 2,614, or 68.55 per cent, were fully verified, so far as can be judged from the tri-daily weather maps.

Cautionary Signals.—98 Cautionary Signals were displayed during the month, of which 82, or 83.7 per cent., were justified. No Cautionary Off-shore Signals were displayed. The above does not include signals ordered at 47 display stations where the velocity is only estimated and not measured.

NAVIGATION.

Stage of Water in Rivers.—In the table on the right-hand side of chart No. III are given the highest and lowest readings of the Signal Corps river gauges for the month, with the dates. With one exception (Omaha from the 1st to the 4th) the rivers at the Signal Corps stations have not reached the danger line during the month. The Red River at Shreveport and the Missouri at Yankton, Omaha and Leavenworth have continued to fall slowly throughout. The Mississippi has fluctuated considerably but continued in a good